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TITLE: Film-forming composition and film formation
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AB Film-forming compns. polymerizable with UV light or electron beams comprise 1 part RZaZ1O2CCR1:CH2 [R = C4-20 perfluoroalkyl; Z = SO2NR2, CONR2, CH2CH2SO2NR2, O-p-C6H4SO2NR2, O-p-C6H4CONR2, CH2CH2SCH2CH2CONR2, CH2CH2NR2, CH2CHMeNR2, (CH2)3NR2; R1 = H, Me, halo; R2 = H, C1-12 alkyl, ether group-contg. alkyl; a = 0, 1; Z1 = (CH2)n; n = 2-4], 4-10,000 parts hydrocarbyl acrylates, and 0.005-5% (per total compn.) oil-sol. F-contg. surfactants, giving films with good hardness and corrosion resistance. Thus, a mixt. of C8F17SO2NEtCH2CH2O2CCH:CH2 (I) 0.050, N,N',N''-tris(2-hydroxyethyl)isocyanurate triacrylate 96.945, 3:7 C8F17SO2NPrCH2CH2O2CCH:CH2-H2C:CMeCO2(CH2)15CHMe2 copolymer (mol. wt. 4000) 0.005, and benzophenone 3.000 parts was coated on steel, dried, and cured in UV light to give a film with surface hardness >6H, contact angle 72.degree., and good corrosion resistance, vs. 3H, 42, and poor, resp., without I.